

Title (en)

APPARATUS AND METHOD FOR DEHYDRATING BIOLOGICAL MATERIALS

Title (de)

VORRICHTUNG UND VERFAHREN ZUR ENTWÄSSERUNG VON BIOLOGISCHEN MATERIALIEN

Title (fr)

APPAREIL ET PROCÉDÉ POUR LA DÉSHYDRATATION DE MATIÈRES BIOLOGIQUES

Publication

**EP 2424970 A4 20140813 (EN)**

Application

**EP 10769180 A 20100426**

Priority

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- US 17356609 P 20090428

Abstract (en)

[origin: WO2010124375A1] An apparatus and method for microwave vacuum-drying of temperature- sensitive biological materials on a continuous flow-through basis, in which the materials are frozen, ground to frozen particles, dehydrated to a powder, and the powder collected. The apparatus (10) has a microwave generator (12) and waveguide (14), a freezing chamber (46) with a grinder (52), a rotatable dehydration chamber (18) in or adjacent to the waveguide, and a powder collector (82) to receive the powdered biological material. The apparatus operates under reduced pressure provided by a vacuum system (92) coupled to the powder collector (82).

IPC 8 full level

**C12M 1/00** (2006.01); **C12N 1/04** (2006.01); **C12N 9/98** (2006.01); **C12N 13/00** (2006.01); **F26B 1/00** (2006.01); **F26B 5/04** (2006.01); **F26B 5/06** (2006.01); **F26B 11/08** (2006.01)

CPC (source: EP US)

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Citation (search report)

- [A] US 4033048 A 19770705 - VAN IKE CLAYTON
- [A] DE 3916479 C1 19900830
- See references of WO 2010124375A1

Cited by

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DOCDB simple family (publication)

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